

We claim:

~~Sub A~~ 1. An information processing apparatus having a mouse cursor display function, comprising:

3 a display unit for displaying data on a bit mapped display  
4 screen;

5 a pointing device for designating a coordinate location on  
6 said display screen, and for directing scrolling and  
7 setting a scrolling speed for data displayed on said  
8 display screen;

9 mouse cursor control means for displaying a mouse cursor at  
10 a coordinate location on said display screen designated  
11 by said pointing device;

12 scroll control means for scrolling the data on said display  
13 screen in accordance with a display data scrolling  
14 instruction from said pointing device; and

15 scrolling speed display means for displaying a number of  
16 speed indicators during scrolling, the number of  
17 displayed speed indicators corresponding to a relative  
18 scrolling speed set by said pointing device while  
19 scrolling data on said display screen.

1       2. An information processing apparatus according to Claim 1,  
2       wherein said scrolling speed display means arranges the speed  
3       indicators in a scrolling direction relative to a center of said  
4       mouse cursor.

1       ~~3.~~ An information processing apparatus according to Claim 1,  
2       further comprising means for changing a displayed image of the  
3       mouse cursor in response to whether a specific button of said  
4       pointing device is clicked or released.

Sub 100  
1       4. In a computing environment, an enhanced mouse cursor for  
2       indicating a direction and a relative speed of scrolling of data  
3       displayed in a window on a display screen of an information  
4       processing apparatus that designates a coordinate location using a  
5       pointing device, said enhanced mouse cursor comprising:

6           a mouse cursor body located at the coordinate location  
7           designated by using said pointing device; and

8           one or more speed indicators displayed in a number  
9           corresponding to a scrolling speed while scrolling data  
10          on said display screen.

1       5. An enhanced mouse cursor according to Claim 4, wherein said  
2       mouse cursor body does not move during scrolling, and the number of  
3       speed indicators displayed corresponds to a speed at which a user  
4       is moving the pointing device.

1       6. An enhanced mouse cursor according to Claim 4, wherein the  
2       speed indicators are displayed relative to said mouse cursor body  
3       in a direction in which scrolling is occurring. <sup>3</sup>

1       5. An enhanced mouse cursor according to Claim 4, wherein said one  
2       or more speed indicators are arranged relative to a center of said  
3       mouse cursor in a scrolling direction. <sup>3</sup>

1       6. An enhanced mouse cursor according to Claim 4, wherein of said  
2       enhanced mouse cursor is displayed only during a data scrolling  
3       operation. <sup>3</sup>

1       9. A control method for an information processing apparatus having  
2       a mouse cursor display function, said apparatus including a display  
3       unit for displaying data on a bit mapped display screen, and a  
4       pointing device for designating a coordinate location on said  
5       display screen and for directing scrolling and setting a scrolling  
6       speed of data displayed on said display screen, said control method

7 comprising the steps of:

8 (a) displaying a mouse cursor at a coordinate location on  
9 said display screen designated by said pointing device;

10 (b) scrolling data on said display screen in accordance with  
11 a display data scrolling instruction from said pointing  
12 device; and

13 (c) displaying speed indicators in a number corresponding to  
14 a scrolling speed set by said pointing device while  
15 scrolling data on said display screen.

1 10. The control method according to Claim 9, wherein said step (c)  
2 further comprises displaying the speed indicators in a scrolling  
3 direction relative to a center of said mouse cursor.

11. Computer readable code stored on computer readable storage  
1 medium and executable by a computer system that includes a display  
2 unit for displaying data on a bit mapped display screen' and a  
3 pointing device for designating a coordinate location on said  
4 display screen and for directing scrolling and setting a scrolling  
5 speed for data displayed on said display screen, said code  
6 comprising:  
7

8 (a) a routine for displaying a mouse cursor at a coordinate

9                   location on said display screen designated by said  
10                  pointing device;

11                 (b) a routine for scrolling data on said display screen in  
12                 accordance with a display data scrolling instruction  
13                 from said pointing device; and

14                 (c) a routine for modifying the mouse cursor to include  
15                 speed indicators in a number which corresponds to  
16                 a relative scrolling speed set by said pointing device  
17                 while scrolling data on said display screen.

1                 12. The computer readable code according to Claim 11, wherein said  
2                 routine for modifying the mouse cursor further comprises displaying  
3                 the speed indicators in a scrolling direction relative to a center  
4                 of said mouse cursor.

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